

OIFE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/836,439

DATE: 11/30/2001

TIME: 12:32:10

Input Set : A:\017753-154.ST25.txt

Output Set: N:\CRF3\11212001\I836439.raw

**ENTERED**

4 <110> APPLICANT: de Bizemont, Therese  
5 Sennlaub, Florian  
7 <120> TITLE OF INVENTION: Gene Therapy With Chimeric Oligonucleotides Delivered by a  
8 Method Comprising a Step of Iontophoresis  
10 <130> FILE REFERENCE: 017753-154  
12 <140> CURRENT APPLICATION NUMBER: US 09/836,439  
13 <141> CURRENT FILING DATE: 2001-04-17  
15 <160> NUMBER OF SEQ ID NOS: 13  
17 <170> SOFTWARE: PatentIn version 3.1  
19 <210> SEQ ID NO: 1  
20 <211> LENGTH: 68  
21 <212> TYPE: DNA  
22 <213> ORGANISM: Artificial Sequence  
24 <220> FEATURE:  
25 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule: DNA/2'OMeRNA  
derived  
26 from the murine gene encoding the cGMP-phosphodiesterase  
27 beta-subunit  
29 <400> SEQUENCE: 1  
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32 ttctgcgc 68  
35 <210> SEQ ID NO: 2  
36 <211> LENGTH: 25  
37 <212> TYPE: DNA  
38 <213> ORGANISM: Artificial Sequence  
40 <220> FEATURE:  
41 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA derived  
42 from the murine or human gene encoding the  
43 transcription factor HIF1alpha  
45 <400> SEQUENCE: 2  
46 ccatgtgacc attaggaaat gagag 25  
49 <210> SEQ ID NO: 3  
50 <211> LENGTH: 24  
51 <212> TYPE: DNA  
52 <213> ORGANISM: Artificial Sequence  
54 <220> FEATURE:  
55 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA derived  
56 from the human gene encoding the opsin  
58 <400> SEQUENCE: 3  
59 gctttctttg ccaagagcgc cgca 24  
62 <210> SEQ ID NO: 4  
63 <211> LENGTH: 22  
64 <212> TYPE: DNA  
65 <213> ORGANISM: Artificial Sequence  
67 <220> FEATURE:  
68 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA derived  
69 from the human gene encoding the RPl  
71 <400> SEQUENCE: 4

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72 aagaaaaaat ctagacaagc aa                                22
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76 <211> LENGTH: 25
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA derived
82     from the murine gene encoding the opsin
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
86     DNA/2'OMeRNA derived from the murine gene
87     encoding the cGMP-phosphodiesterase beta-subunit
89 <400> SEQUENCE: 5
90 gctttctttg ctgagagctc ttcca                                25
93 <210> SEQ ID NO: 6
94 <211> LENGTH: 22
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA derived
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103 <400> SEQUENCE: 6
104 aagacttctg agtaacaatc aa                                22
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108 <211> LENGTH: 25
109 <212> TYPE: DNA
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112 <220> FEATURE:
113 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA derived
115     from the murine or human gene encoding the
116     transcription factor HIF1alpha
118 <400> SEQUENCE: 7
119 ccatgtgacc atgaggaaat gagag                                25
122 <210> SEQ ID NO: 8
123 <211> LENGTH: 24
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125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA derived
129     from the human gene encoding the opsin
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135 <210> SEQ ID NO: 9
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137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA derived
142     from the human gene encoding the RP1

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144 <400> SEQUENCE: 9
145 aagaaaaaat cttga 15
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149 <211> LENGTH: 25
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151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA derived
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157 <400> SEQUENCE: 10
158 gctttctttg ctaagagctc ttcca 25
161 <210> SEQ ID NO: 11
162 <211> LENGTH: 68
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule: DNA/2'OMeRNA
168 derived from the murine gene encoding the
169 cGMP-phosphodiesterase beta-subunit
171 <400> SEQUENCE: 11
172 ctaccaaadc catgggattt ccatcagtta uuucugucca tcagguagga gugggctcgc 60
173 gtgcgttc 68
176 <210> SEQ ID NO: 12
177 <211> LENGTH: 21
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Description of Artificial Sequence:
183 oligonucleotide sens (primer) derived from the
184 murine cDNA encoding the cGMP-phosphodiesterase
185 beta-subunit
187 <400> SEQUENCE: 12
188 ggccgggaaa ttgtcttcta c 21
191 <210> SEQ ID NO: 13
192 <211> LENGTH: 21
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Description of Artificial Sequence:
198 oligonucleotide reverse(primer) derived from the
199 murine cDNA encoding the cGMP-phosphodiesterase
200 beta-subunit
202 <400> SEQUENCE: 13
203 ccccaggaac tgtgtcagag a 21

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/836,439

DATE: 11/30/2001

TIME: 12:32:11

Input Set : A:\017753-154.ST25.txt

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